

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/623,176A
Source: IFW016
Date Processed by STIC: 1/13/06

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 01/13/2006

PATENT APPLICATION: US/10/623,176A

TIME: 08:47:49

Input Set : A:\2183-6047 seq list.txt

Output Set: N:\CRF4\01132006\J623176A.raw

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3 <110> APPLICANT: Goulmy, Els A.J.M.
4      Hunt, Donald F.
5      Engelhard, Victor H.
7 <120> TITLE OF INVENTION: HA-1 epitopes and uses thereof
9 <130> FILE REFERENCE: 2183-6047US
11 <140> CURRENT APPLICATION NUMBER: 10/623,176A
12 <141> CURRENT FILING DATE: 2003-07-18
14 <150> PRIOR APPLICATION NUMBER: 09/489,760
15 <151> PRIOR FILING DATE: 2000-01-21
17 <150> PRIOR APPLICATION NUMBER: EP 97202303.0
18 <151> PRIOR FILING DATE: 1997-07-23
20 <150> PRIOR APPLICATION NUMBER: PCT/NL98/00424
21 <151> PRIOR FILING DATE: 1998-07-23
23 <150> PRIOR APPLICATION NUMBER: JP 2000-504165
24 <151> PRIOR FILING DATE: 2000-01-24
26 <160> NUMBER OF SEQ ID NOS: 101
28 <170> SOFTWARE: PatentIn Ver. 2.1
30 <210> SEQ ID NO: 1
31 <211> LENGTH: 9
32 <212> TYPE: PRT
33 <213> ORGANISM: Artificial Sequence
35 <220> FEATURE:
36 <223> OTHER INFORMATION: Description of Artificial Sequence: HA-1 peptide
37      wherein X can be R or H
39 <220> FEATURE:
40 <221> NAME/KEY: SITE
41 <222> LOCATION: (1)..(9)
43 <400> SEQUENCE: 1
W--> 44 Val Leu Xaa Asp Asp Leu Leu Glu Ala
45      1              5
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50 <212> TYPE: PRT
51 <213> ORGANISM: Artificial Sequence
53 <220> FEATURE:
54 <223> OTHER INFORMATION: Description of Artificial Sequence: HA-1 peptide
56 <220> FEATURE:
57 <221> NAME/KEY: SITE
58 <222> LOCATION: (1)..(9)
60 <400> SEQUENCE: 2
61 Val Leu His Asp Asp Leu Leu Glu Ala
62      1              5
65 <210> SEQ ID NO: 3

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66 <211> LENGTH: 9
67 <212> TYPE: PRT
68 <213> ORGANISM: Artificial Sequence
70 <220> FEATURE:
71 <223> OTHER INFORMATION: Description of Artificial Sequence: HA-1 peptide
72     wherein X can be R or H
74 <220> FEATURE:
75 <221> NAME/KEY: SITE
76 <222> LOCATION: (1)..(9)
78 <400> SEQUENCE: 3
W--> 79 Lys Glu Cys Val Leu Xaa Asp Asp Leu
80     1             5
83 <210> SEQ ID NO: 4
84 <211> LENGTH: 9
85 <212> TYPE: PRT
86 <213> ORGANISM: Artificial Sequence
89 <220> FEATURE:
90 <223> OTHER INFORMATION: Description of Artificial Sequence: HA-1 peptide
92 <220> FEATURE:
93 <221> NAME/KEY: SITE
94 <222> LOCATION: (1)..(9)
96 <400> SEQUENCE: 4
97 Lys Glu Cys Val Leu His Asp Asp Leu
98     1             5
101 <210> SEQ ID NO: 5
102 <211> LENGTH: 9
103 <212> TYPE: PRT
104 <213> ORGANISM: Artificial Sequence
106 <220> FEATURE:
107 <223> OTHER INFORMATION: Description of Artificial Sequence: HA-1 peptide
109 <220> FEATURE:
110 <221> NAME/KEY: SITE
111 <222> LOCATION: (1)..(9)
113 <400> SEQUENCE: 5
114 Lys Glu Cys Val Leu Arg Asp Asp Leu
115     1             5
118 <210> SEQ ID NO: 6
119 <211> LENGTH: 10
120 <212> TYPE: PRT
121 <213> ORGANISM: Artificial Sequence
123 <220> FEATURE:
124 <223> OTHER INFORMATION: Description of Artificial Sequence: HA-1 peptide
126 <220> FEATURE:
127 <221> NAME/KEY: SITE
128 <222> LOCATION: (1)..(10)
130 <400> SEQUENCE: 6
131 Lys Glu Cys Val Leu His Asp Asp Leu Leu
132     1             5             10
135 <210> SEQ ID NO: 7

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136 <211> LENGTH: 10
137 <212> TYPE: PRT
138 <213> ORGANISM: Artificial Sequence
140 <220> FEATURE:
141 <223> OTHER INFORMATION: Description of Artificial Sequence: HA-1 peptide
143 <220> FEATURE:
144 <221> NAME/KEY: SITE
145 <222> LOCATION: (1)..(10)
147 <400> SEQUENCE: 7
148 Lys Glu Cys Val Leu Arg Asp Asp Leu Leu
149   1           5           10
152 <210> SEQ ID NO: 8
153 <211> LENGTH: 10
154 <212> TYPE: PRT
155 <213> ORGANISM: Artificial Sequence
157 <220> FEATURE:
158 <223> OTHER INFORMATION: Description of Artificial Sequence: HA-1 peptide
159     wherein X can be R or H
161 <220> FEATURE:
162 <221> NAME/KEY: SITE
163 <222> LOCATION: (1)..(10)
165 <400> SEQUENCE: 8
W--> 166 Lys Glu Cys Val Leu Xaa Asp Asp Leu Leu
167   1           5           10
170 <210> SEQ ID NO: 9
171 <211> LENGTH: 10
172 <212> TYPE: PRT
173 <213> ORGANISM: Artificial Sequence
175 <220> FEATURE:
176 <223> OTHER INFORMATION: Description of Artificial Sequence: peptide
177     capable of binding HLA-A2.1
179 <220> FEATURE:
180 <221> NAME/KEY: SITE
181 <222> LOCATION: (1)..(10)
183 <400> SEQUENCE: 9
184 Phe Leu Pro Ser Asp Cys Phe Pro Ser Val
185   1           5           10
188 <210> SEQ ID NO: 10
189 <211> LENGTH: 9
190 <212> TYPE: PRT
191 <213> ORGANISM: Artificial Sequence
193 <220> FEATURE:
194 <223> OTHER INFORMATION: Description of Artificial Sequence: HA-1 peptide
196 <220> FEATURE:
197 <221> NAME/KEY: SITE
198 <222> LOCATION: (1)..(9)
200 <400> SEQUENCE: 10
201 Val Leu Arg Asp Asp Leu Leu Glu Ala
202   1           5

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205 <210> SEQ ID NO: 11
206 <211> LENGTH: 9
207 <212> TYPE: PRT
208 <213> ORGANISM: Artificial Sequence
210 <220> FEATURE:
211 <223> OTHER INFORMATION: Description of Artificial Sequence: HLA-A3 binder
212     positive control peptide
214 <220> FEATURE:
215 <221> NAME/KEY: SITE
216 <222> LOCATION: (1)..(9)
218 <400> SEQUENCE: 11
219 Lys Gln Ser Ser Lys Ala Leu Gln Arg
220     1             5
223 <210> SEQ ID NO: 12
224 <211> LENGTH: 9
225 <212> TYPE: PRT
226 <213> ORGANISM: Artificial Sequence
228 <220> FEATURE:
229 <223> OTHER INFORMATION: Description of Artificial Sequence: HLA-B60 binder
230     positive control peptide
232 <220> FEATURE:
233 <221> NAME/KEY: SITE
234 <222> LOCATION: (1)..(9)
236 <400> SEQUENCE: 12
237 Lys Glu Ser Thr Leu His Leu Val Leu
238     1             5
241 <210> SEQ ID NO: 13
242 <211> LENGTH: 9
243 <212> TYPE: PRT
244 <213> ORGANISM: Artificial Sequence
246 <220> FEATURE:
247 <223> OTHER INFORMATION: Description of Artificial Sequence: sequence
248     revealed from peptide candidate m/z 550 wherein X
249     can be I or L
251 <220> FEATURE:
253 <221> NAME/KEY: SITE
254 <222> LOCATION: (1)..(9)
256 <400> SEQUENCE: 13
W--> 257 Tyr Xaa Thr Asp Arg Val Met Thr Val
258     1             5
261 <210> SEQ ID NO: 14
262 <211> LENGTH: 9
263 <212> TYPE: PRT
264 <213> ORGANISM: Artificial Sequence
266 <220> FEATURE:
267 <223> OTHER INFORMATION: Description of Artificial Sequence: sequence of
268     peptide candidate m/z 513 wherein X can be L or I
270 <220> FEATURE:
271 <221> NAME/KEY: SITE

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272 <222> LOCATION: (1)..(9)
274 <400> SEQUENCE: 14
W--> 275 Val Xaa His Asp Asp Xaa Xaa Glu Ala
276   1           5
279 <210> SEQ ID NO: 15
280 <211> LENGTH: 8
281 <212> TYPE: PRT
282 <213> ORGANISM: Artificial Sequence
284 <220> FEATURE:
285 <223> OTHER INFORMATION: Description of Artificial Sequence: HA-1 peptide
287 <220> FEATURE:
288 <221> NAME/KEY: SITE
289 <222> LOCATION: (1)..(8)
291 <400> SEQUENCE: 15
292 Val Leu His Asp Leu Leu Glu Ala
293   1           5
296 <210> SEQ ID NO: 16
297 <211> LENGTH: 25
298 <212> TYPE: DNA
299 <213> ORGANISM: Artificial Sequence
301 <220> FEATURE:
302 <223> OTHER INFORMATION: Description of Artificial Sequence: reverse primer
304 <220> FEATURE:
305 <221> NAME/KEY: misc_feature
306 <222> LOCATION: (1)..(25)
308 <400> SEQUENCE: 16
309 gctcctgcat gacgctctgt ctgca 25
312 <210> SEQ ID NO: 17
313 <211> LENGTH: 24
314 <212> TYPE: DNA
315 <213> ORGANISM: Artificial Sequence
317 <220> FEATURE:
318 <223> OTHER INFORMATION: Description of Artificial Sequence: HA-1 (I)
319   forward primer
321 <220> FEATURE:
322 <221> NAME/KEY: misc_feature
323 <222> LOCATION: (1)..(24)
325 <400> SEQUENCE: 17
326 gacgtcgtcg aggacatctc ccat 24
329 <210> SEQ ID NO: 18
330 <211> LENGTH: 25
331 <212> TYPE: DNA
332 <213> ORGANISM: Artificial Sequence
334 <220> FEATURE:
335 <223> OTHER INFORMATION: Description of Artificial Sequence: reverse primer
337 <220> FEATURE:
338 <221> NAME/KEY: misc_feature
339 <222> LOCATION: (1)..(25)
341 <400> SEQUENCE: 18

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 01/13/2006
PATENT APPLICATION: US/10/623,176A TIME: 08:47:50

Input Set : A:\2183-6047 seq list.txt
Output Set: N:\CRF4\01132006\J623176A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 3
Seq#:3; Xaa Pos. 6
Seq#:8; Xaa Pos. 6
Seq#:13; Xaa Pos. 2
Seq#:14; Xaa Pos. 2,6,7
Seq#:24; Xaa Pos. 3
Seq#:25; N Pos. 23,24,25,26,27,28,29,30,31,32
Seq#:26; N Pos. 39
Seq#:33; Xaa Pos. 9

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:79; Line(s) 1436
Seq#:80; Line(s) 1450
Seq#:81; Line(s) 1468
Seq#:82; Line(s) 1486
Seq#:83; Line(s) 1504
Seq#:84; Line(s) 1518
Seq#:85; Line(s) 1536
Seq#:86; Line(s) 1550
Seq#:87; Line(s) 1568
Seq#:89; Line(s) 1599
Seq#:90; Line(s) 1617
Seq#:91; Line(s) 1635
Seq#:92; Line(s) 1649
Seq#:93; Line(s) 1667
Seq#:94; Line(s) 1681
Seq#:95; Line(s) 1695
Seq#:96; Line(s) 1713
Seq#:97; Line(s) 1731
Seq#:98; Line(s) 1745
Seq#:99; Line(s) 1763
Seq#:100; Line(s) 1781
Seq#:101; Line(s) 1799

VERIFICATION SUMMARY

DATE: 01/13/2006

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Input Set : A:\2183-6047 seq list.txt

Output Set: N:\CRF4\01132006\J623176A.raw

L:44 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:79 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:166 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:257 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:275 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:442 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
L:460 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
L:477 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
L:595 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0